BEST AVAILABLE COPY
Title: METHODS OF NANOSTRUCTURE FORMATION AND SHAPE SELECTION

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)



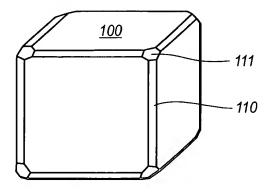


Fig. 1

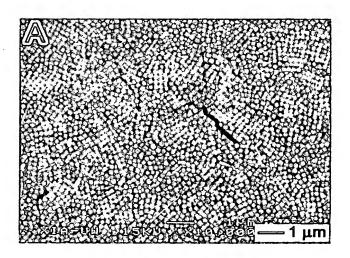


Fig. 2A

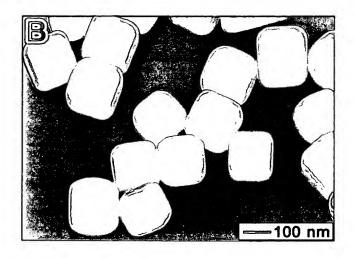


Fig. 28

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

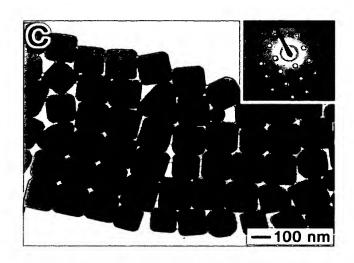


Fig. 2C

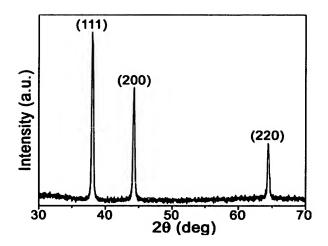


Fig. 2D

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)

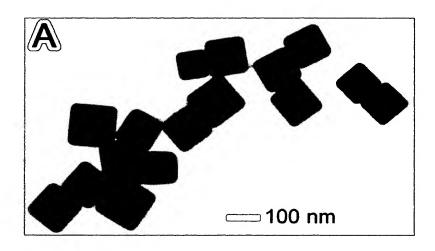


Fig. 3A

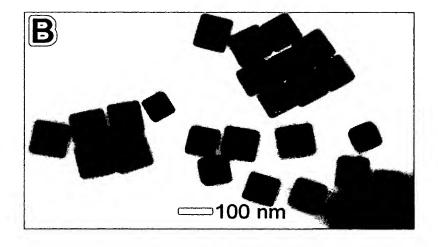


Fig. 3B

Title: METHODS OF NANOSTRUCTURE FORMATION AND SHAPE SELECTION Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)

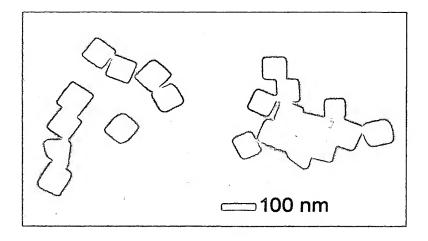


Fig. 4

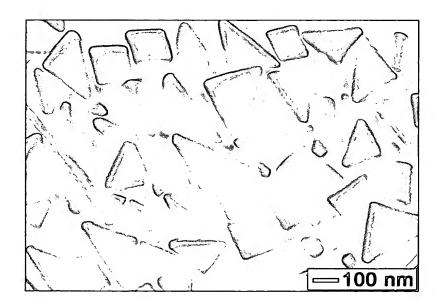


Fig. 5

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

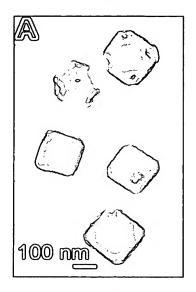


Fig. 6A

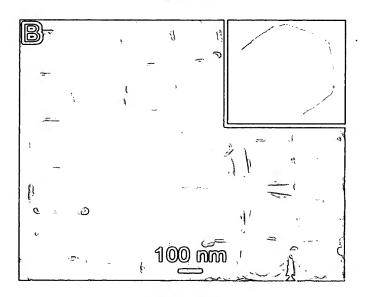


Fig. 6B

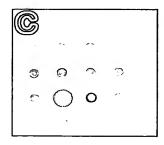


Fig. 6C

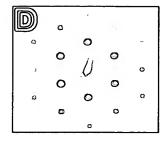


Fig. 6D

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

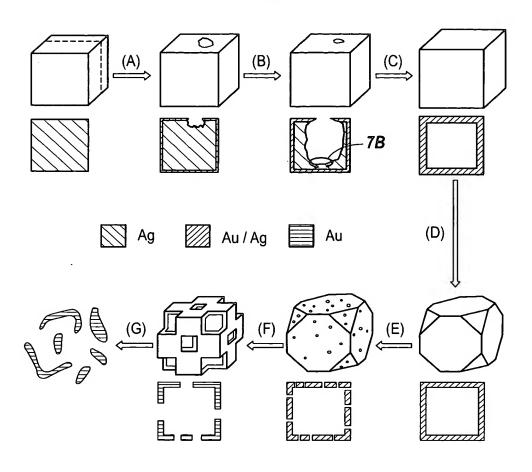


Fig. 7A

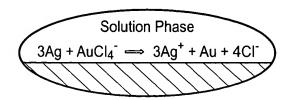


Fig. 78

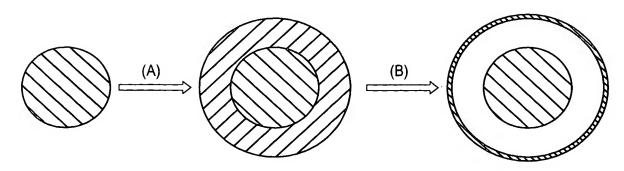


Fig. 8

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)

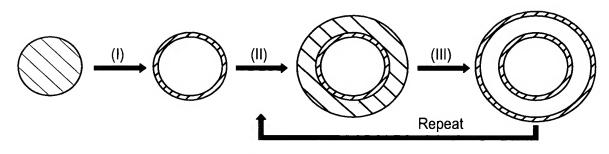


Fig. 9A

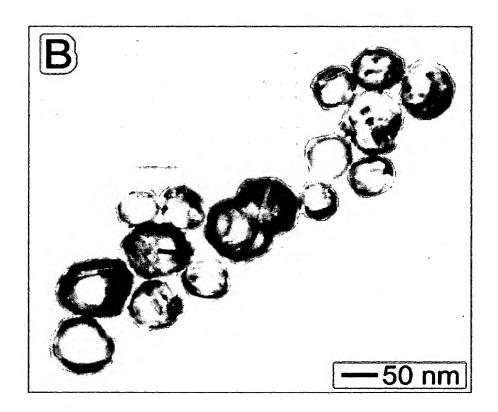


Fig. 9B

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

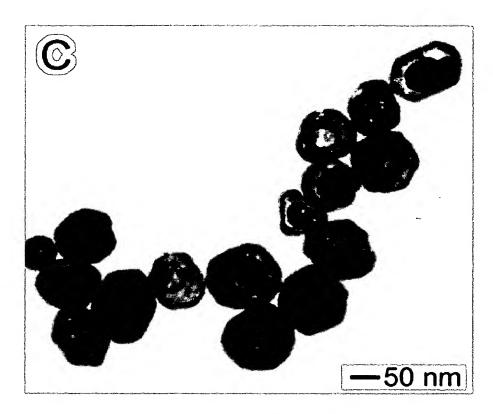


Fig. 9C

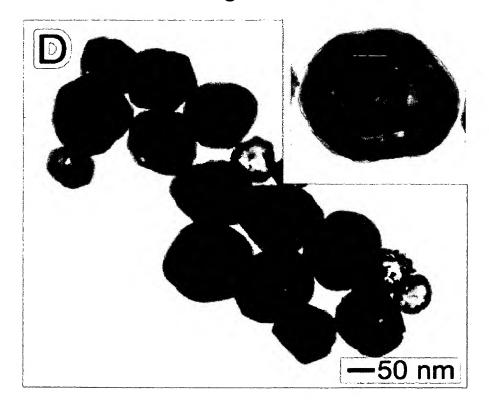
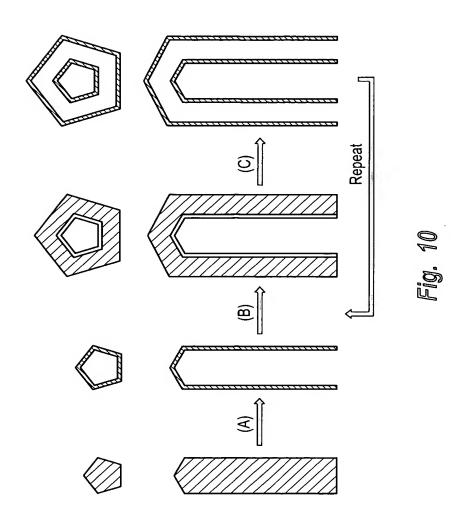


Fig. 9D

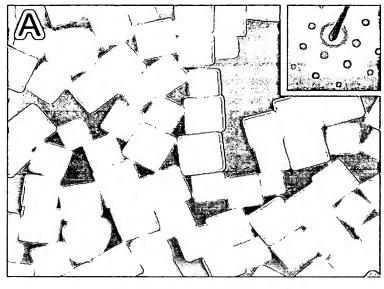
Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

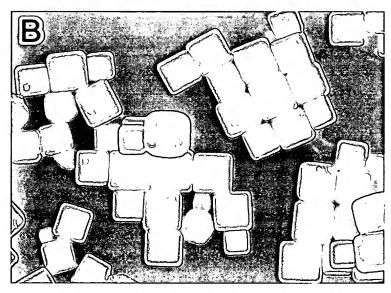


Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)



—100 nm

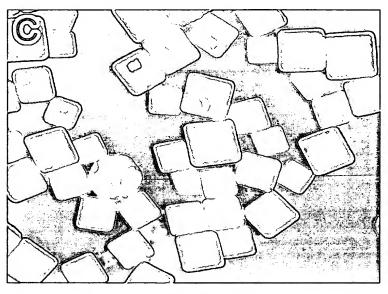
Fig. 11A



—100 nm

Fig. 11B

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)



—100 nm

Fig. 11C

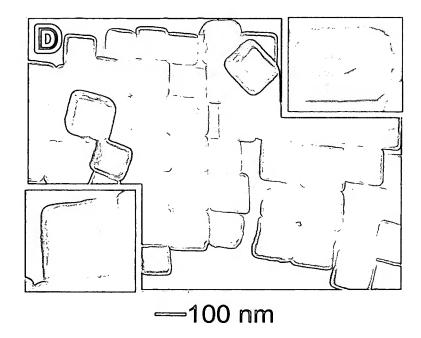


Fig. 11D

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)

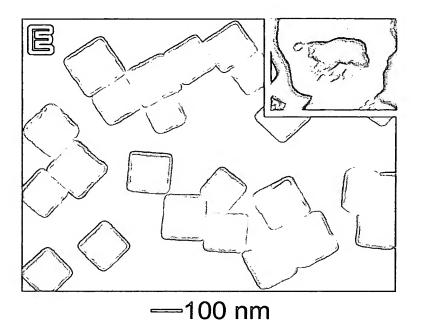


Fig. 11E

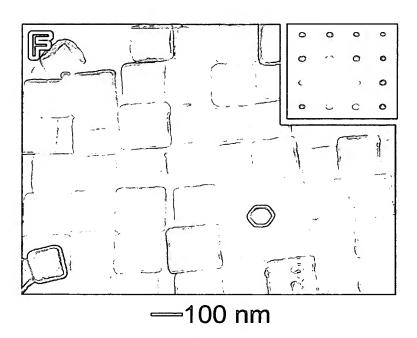


Fig. 11F

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

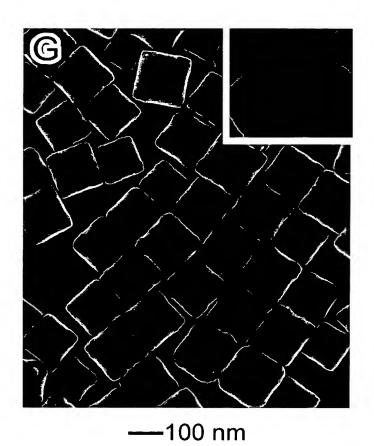
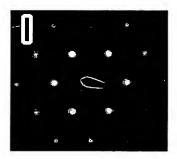


Fig. 11G



—100 nm

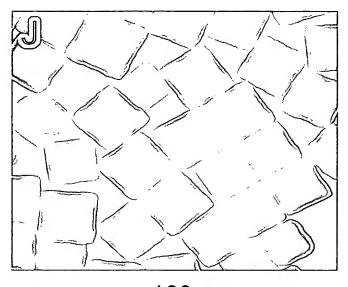
Fig. 11H



—100 nm

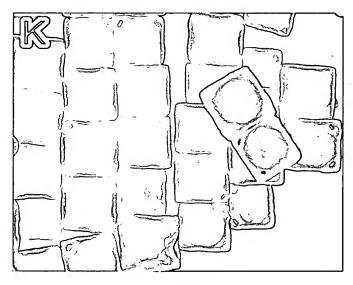
Fig. 111

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)



—100 nm

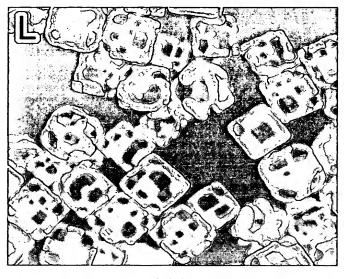
Fig. 11J



—100 nm

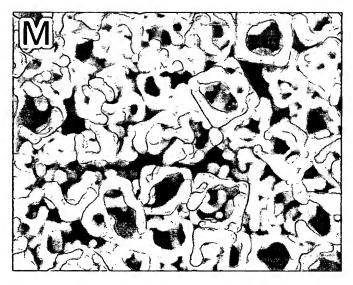
Fig. 11K

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)



—100 nm

Fig. 11L



—100 nm

Fig. 11M

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

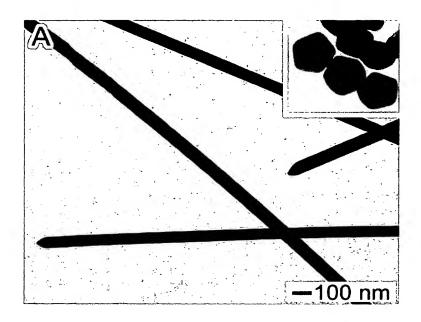


Fig. 12A

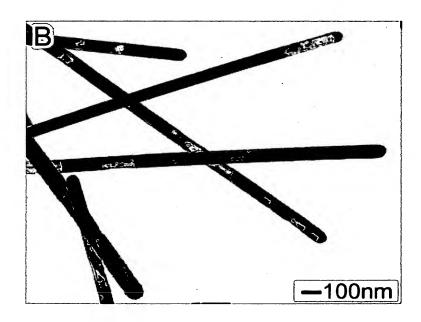


Fig. 12B

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

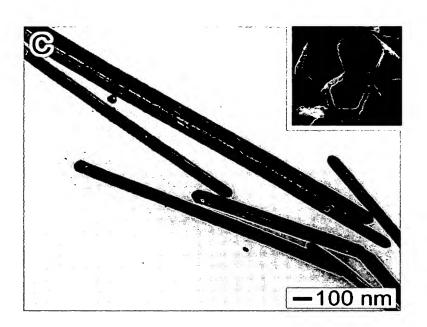


Fig. 12C

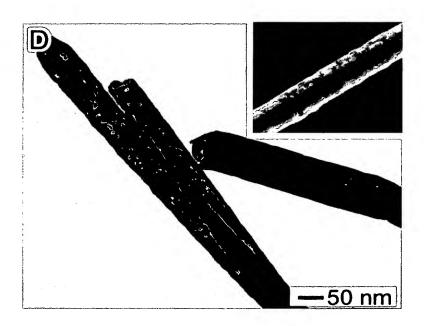


Fig. 12D

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)

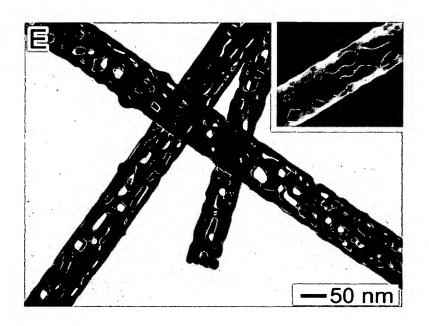


Fig. 12E

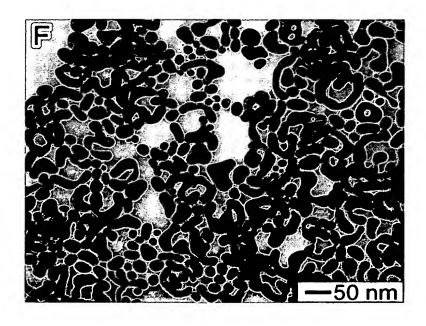


Fig. 12F

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

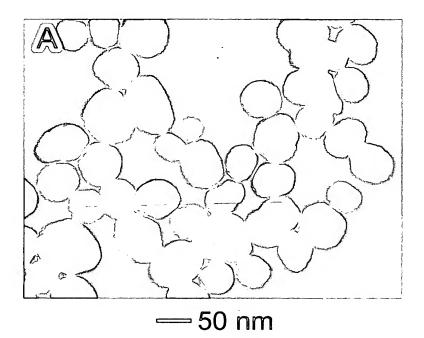


Fig. 13A

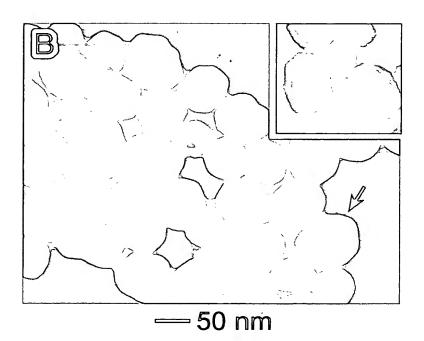


Fig. 13B

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

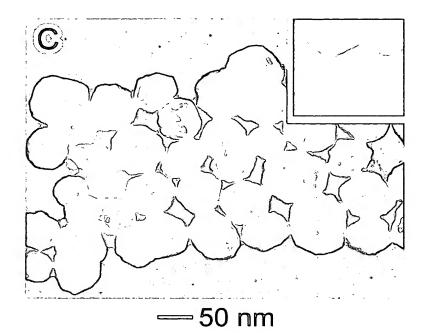


Fig. 13C

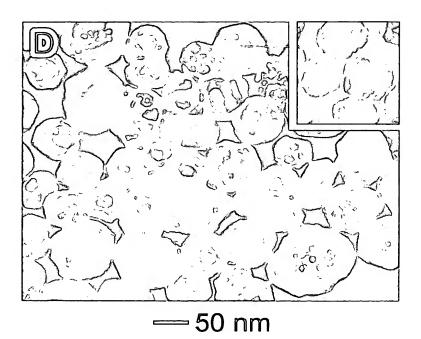


Fig. 13D

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

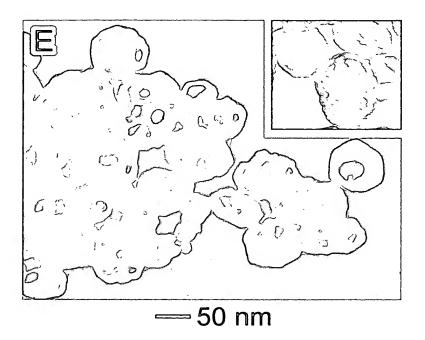


Fig. 13E

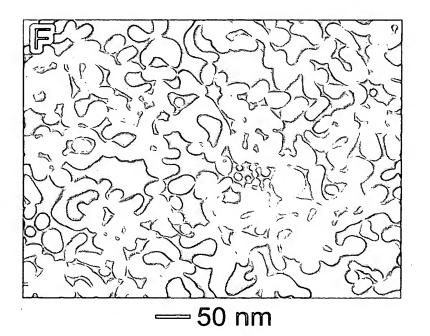


Fig. 13F

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

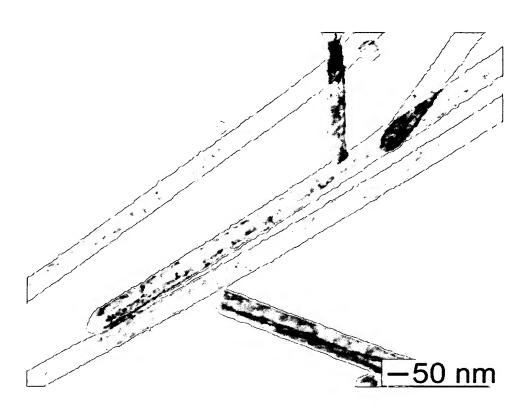


Fig. 14

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

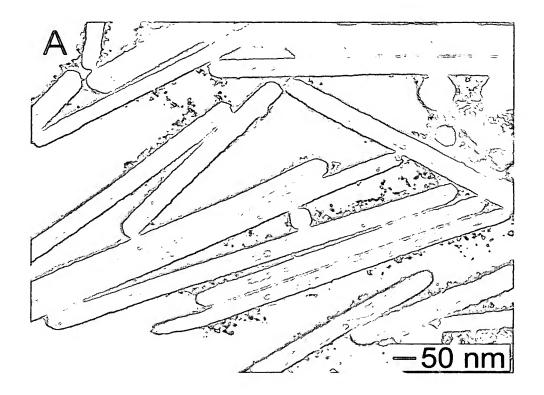


Fig. 15A

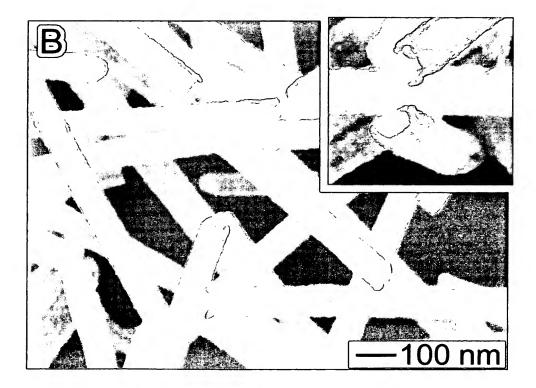


Fig. 15B

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

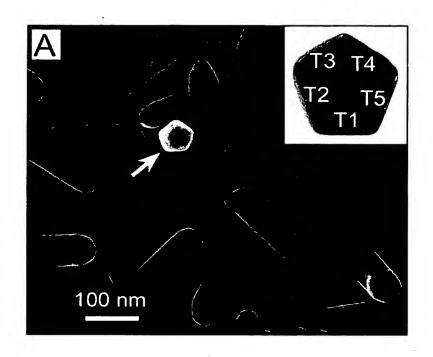


Fig. 16A

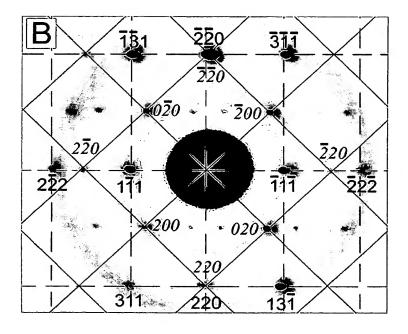


Fig. 16B

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)

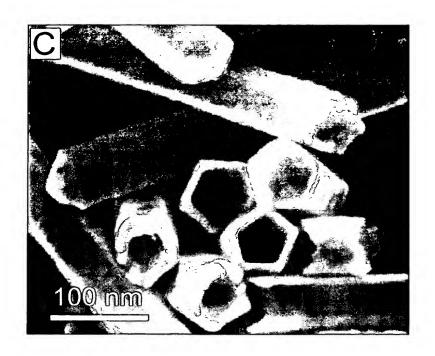


Fig. 16C

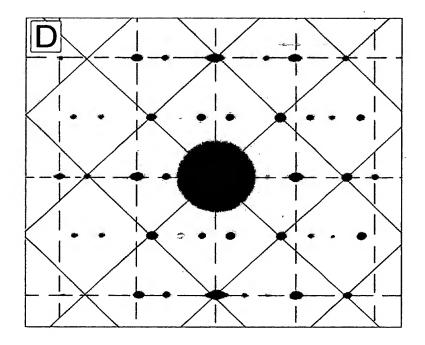


Fig. 16D

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set A)

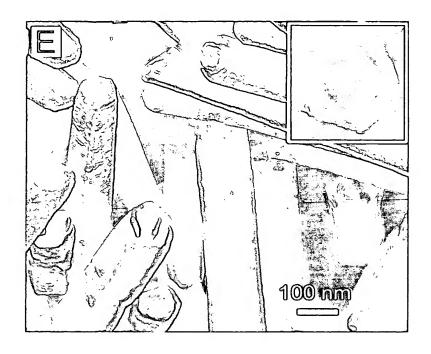


Fig. 16E

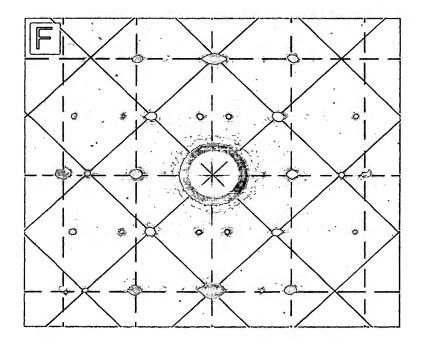


Fig. 16F

Title: METHODS OF NANOSTRUCTURE FORMATION AND SHAPE SELECTION Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)

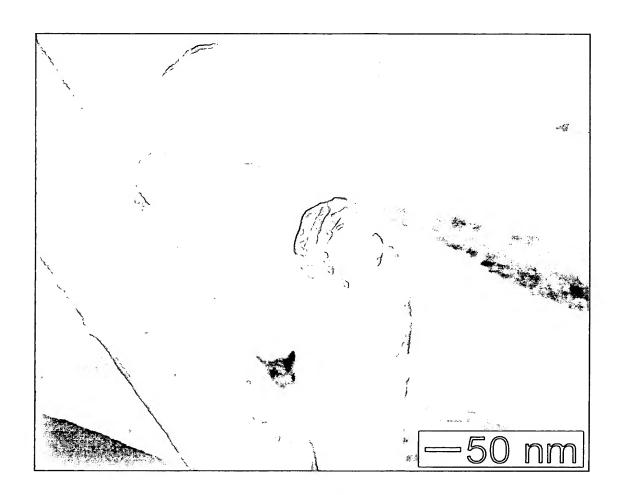


Fig. 17

Title: METHODS OF NANOSTRUCTURE FORMATION AND SHAPE SELECTION Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set A)

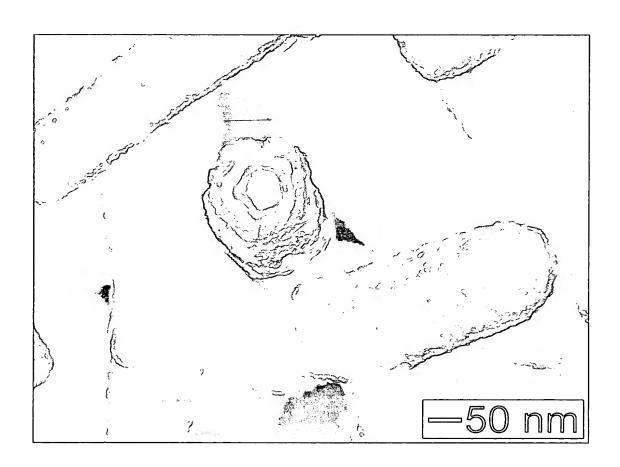


Fig. 18



Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

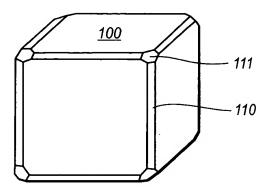


Fig. 1

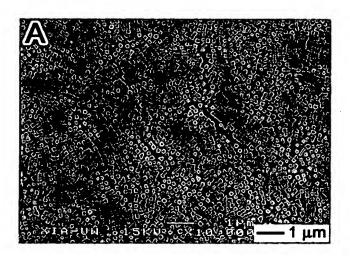


Fig. 2A

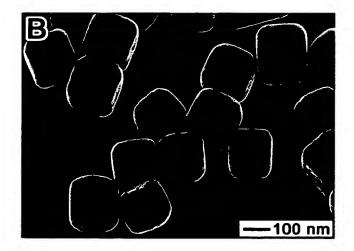


Fig. 2B

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

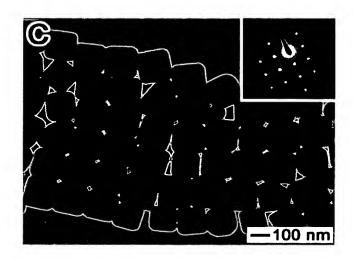


Fig. 2C

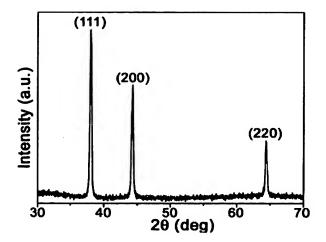


Fig. 2D

Title: METHODS OF NANOSTRUCTURE FORMATION AND SHAPE SELECTION Inventors: Younan Xia and Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

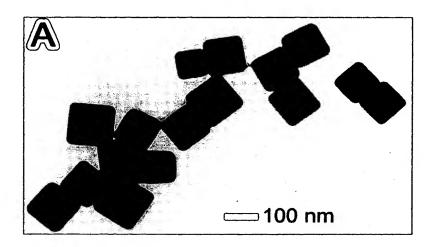


Fig. 3A

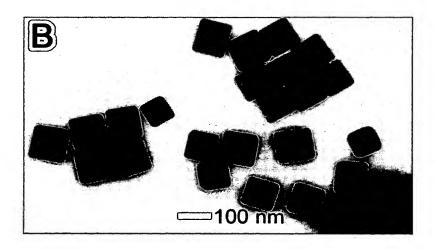


Fig. 3B

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

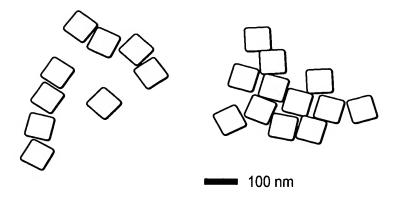


Fig. 4

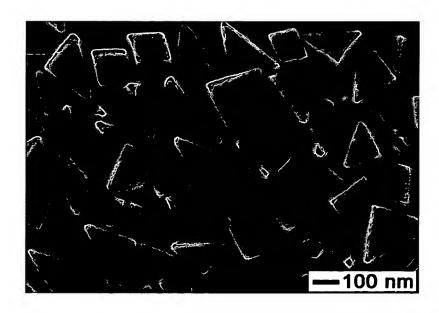


Fig. 5

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

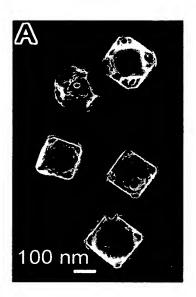
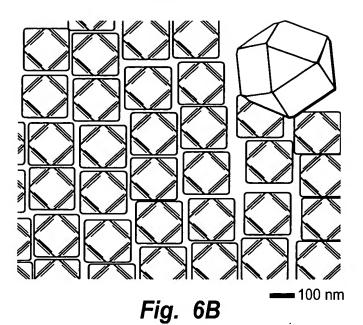


Fig. 6A



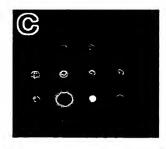


Fig. 6C

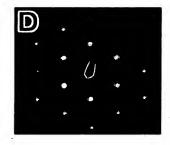


Fig. 6D

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

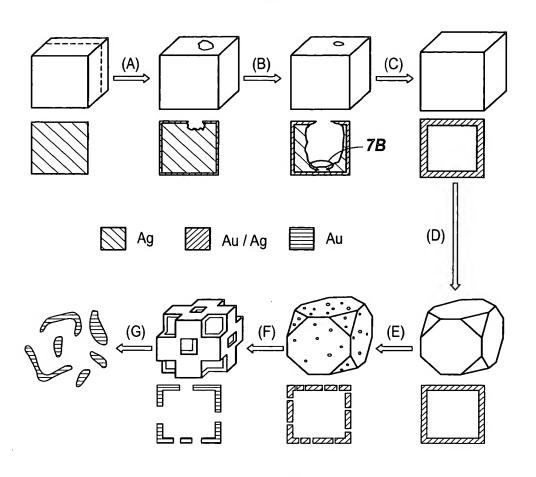


Fig. 7A

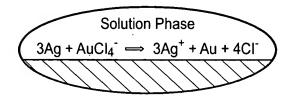


Fig. 78

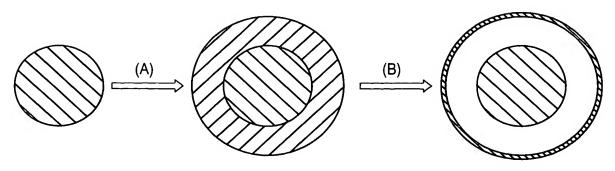


Fig. 8

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

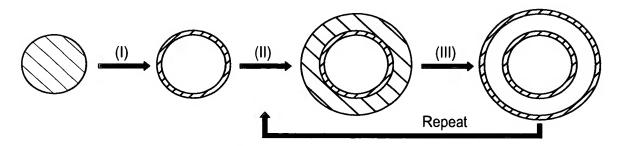


Fig. 9A

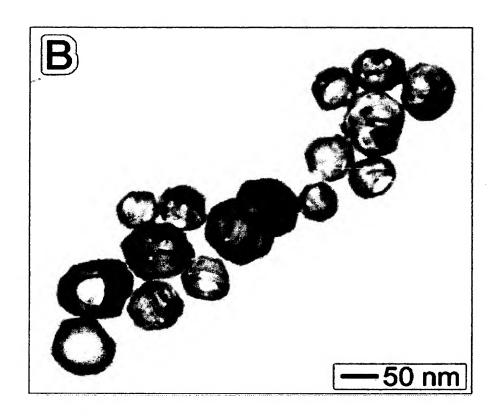


Fig. 9B

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

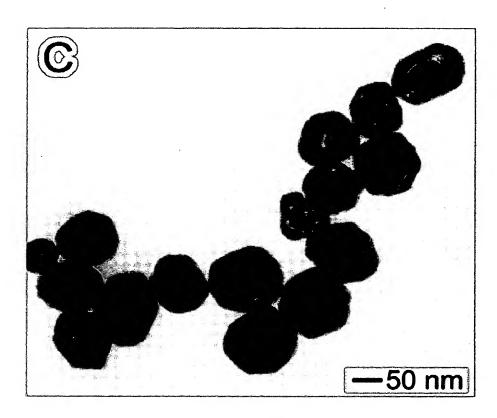


Fig. 9C

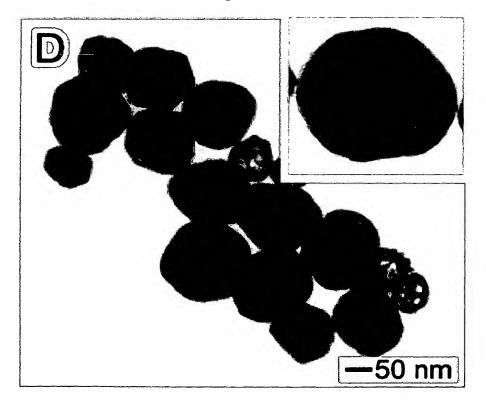
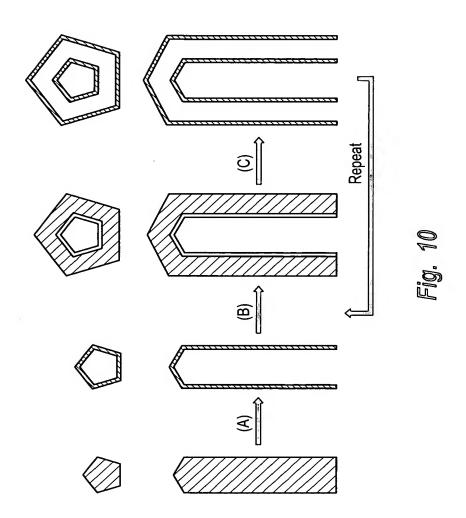


Fig. 9D

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)



Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

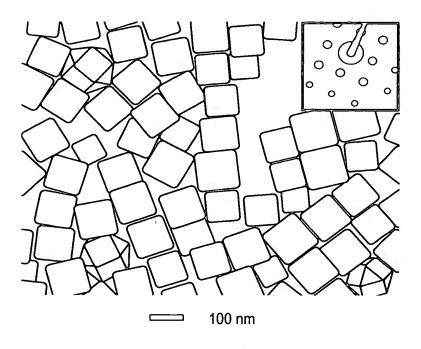


Fig. 11A

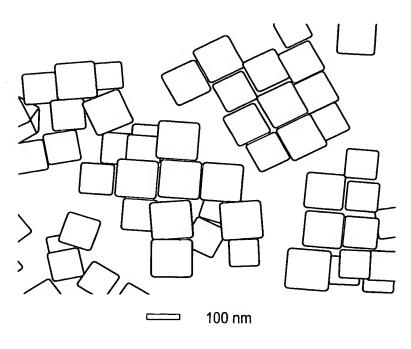


Fig. 11B

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

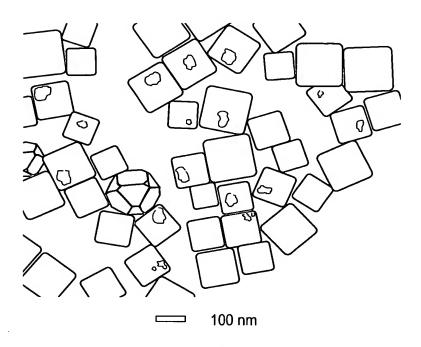


Fig. 11C

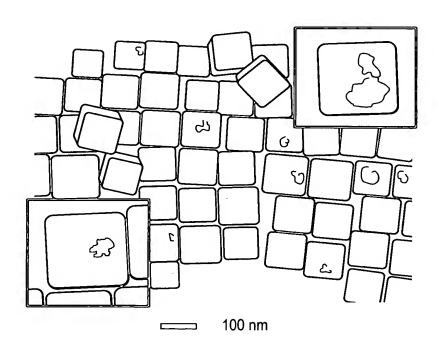


Fig. 11D

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

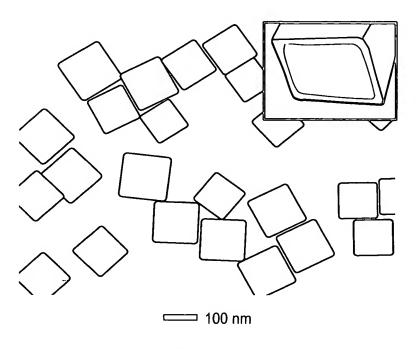


Fig. 11E

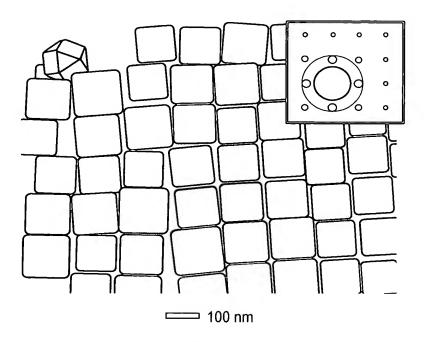


Fig. 11F

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

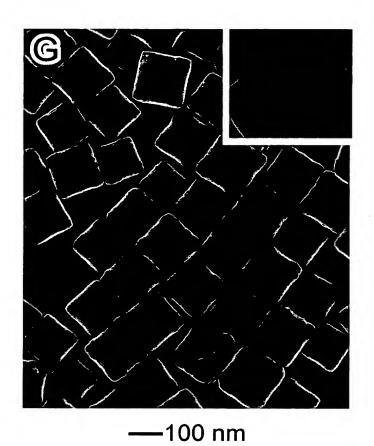


Fig. 11G

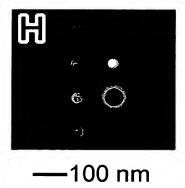
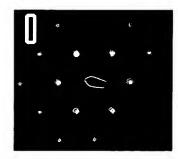


Fig. 11H



—100 nm

Fig. 111

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

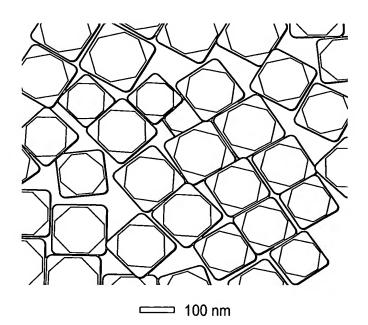
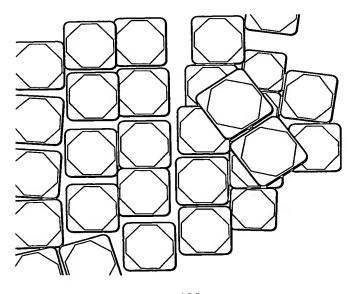


Fig. 11J

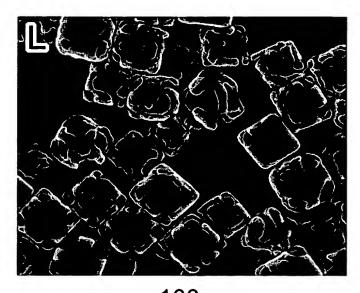


─ 100 nm

Fig. 11K

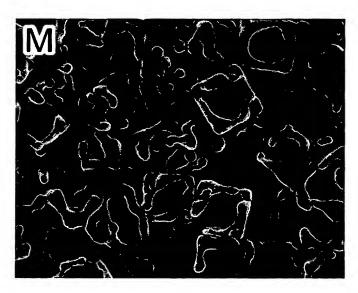
Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)



-100 nm

Fig. 11L



–100 nm

Fig. 11M

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

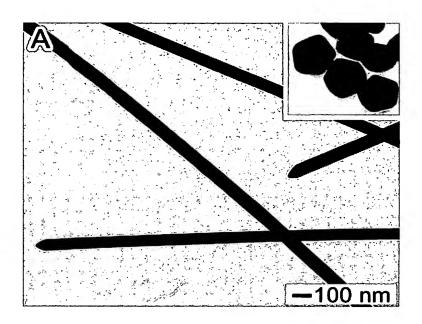


Fig. 12A

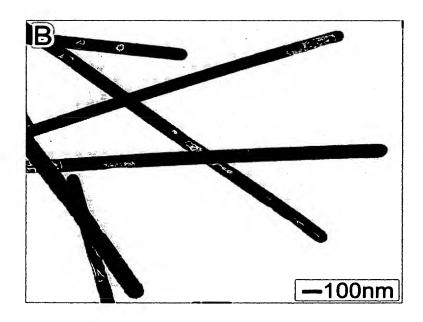


Fig. 12B

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

17 / 28

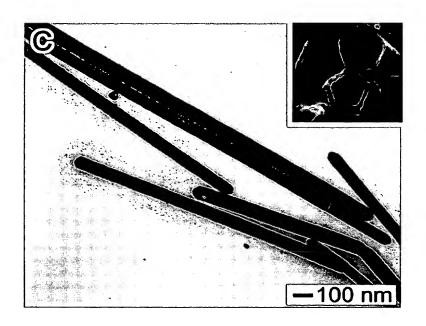


Fig. 12C

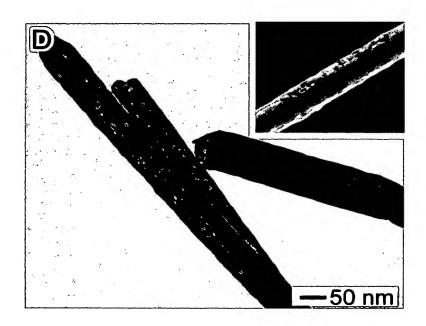


Fig. 12D

Inventors: Younan Xia and Yugan Sun

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

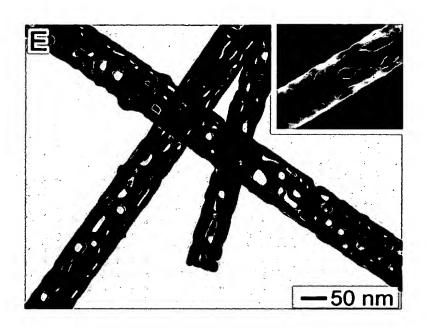


Fig. 12E

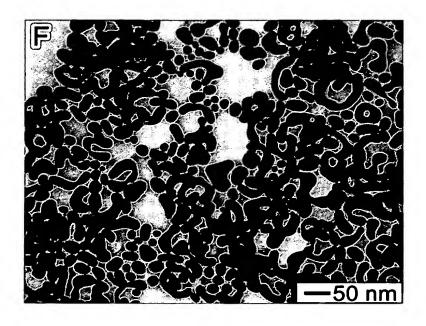
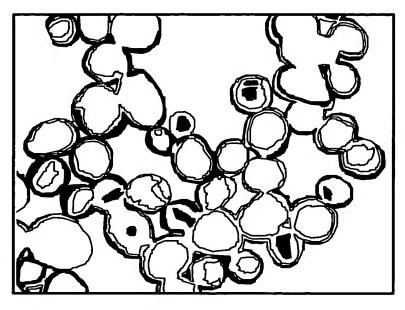


Fig. 12F

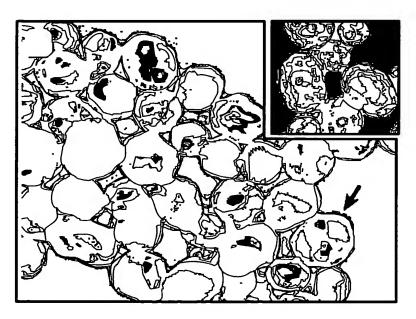
Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

19/28



50 nm

Fig. 13A



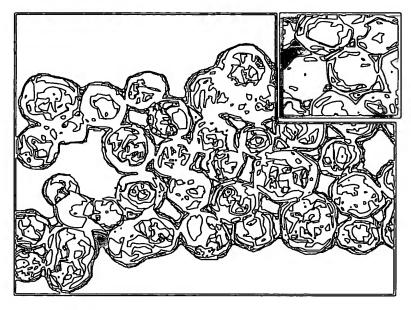
50 nm

Fig. 13B

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

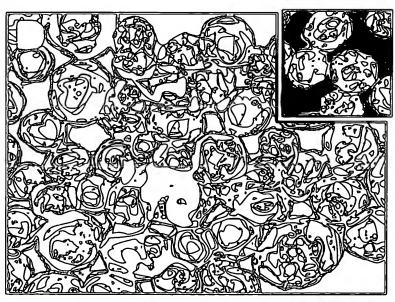
REPLACEMENT SHEET (Set B)

20/28



□ 50 nm

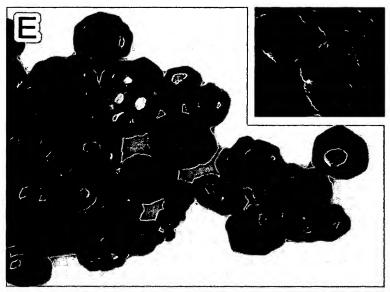
Fig. 13C



⊐ 50 nm

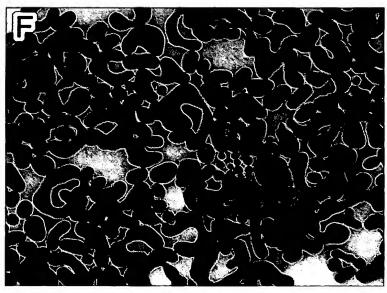
Fig. 13D

Inventors: Younan Xia and Yugan Sun
Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003
REPLACEMENT SHEET (Set B)



50 nm

Fig. 13E



- 50 nm

Fig. 13F

Title: METHODS OF NANOSTRUCTURE FORMATION AND SHAPE SELECTION Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

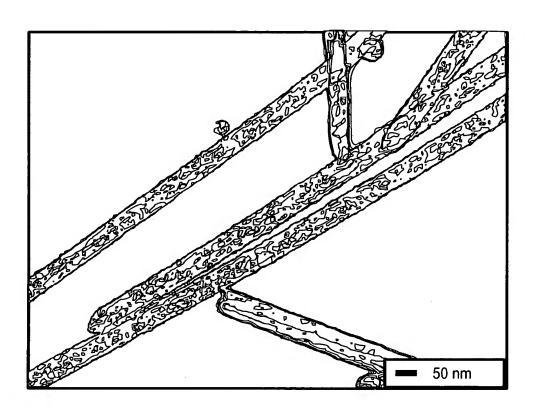


Fig. 14

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

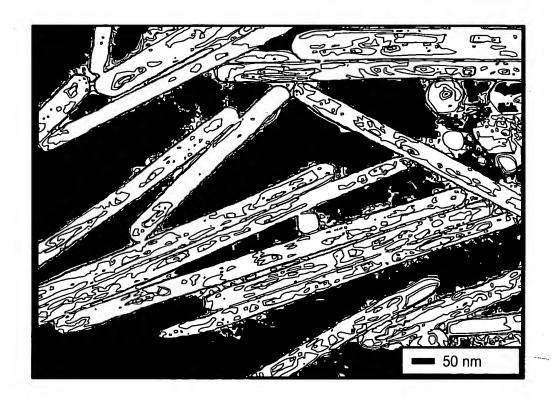


Fig. 15A

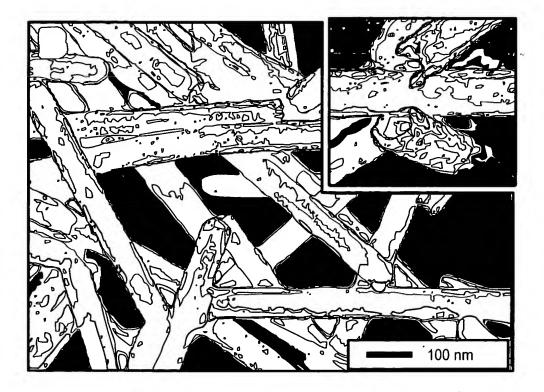


Fig. 15B

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

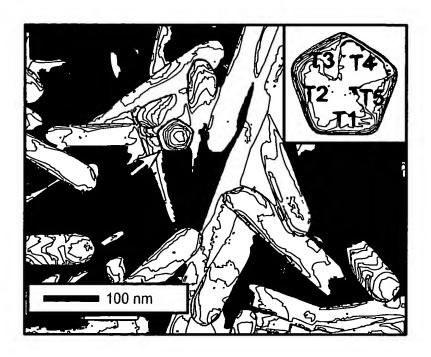


Fig. 16A

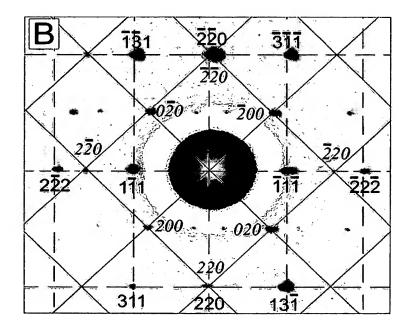


Fig. 16B

Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003

REPLACEMENT SHEET (Set B)

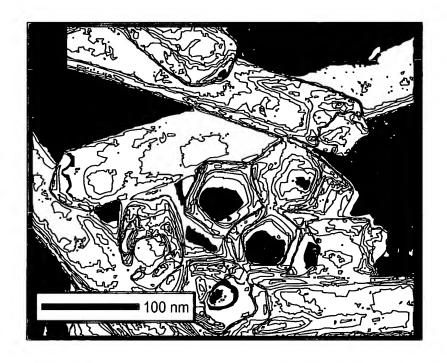


Fig. 16C

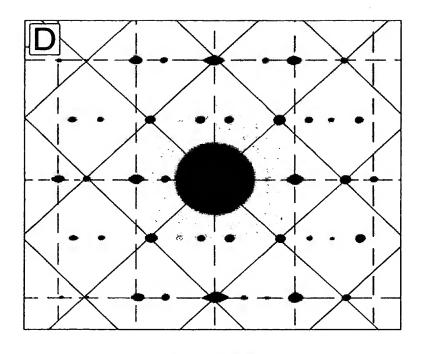


Fig. 16D

Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

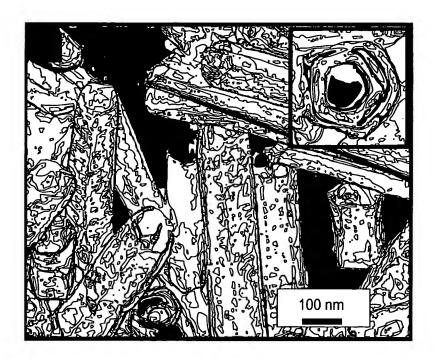


Fig. 16E

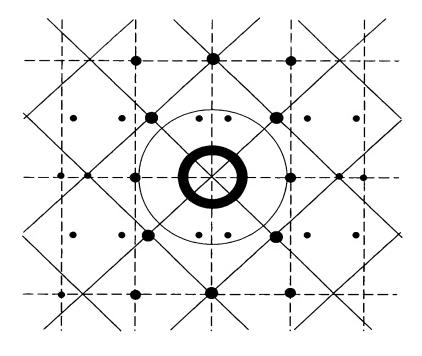


Fig. 16F

Title: METHODS OF NANOSTRUCTURE FORMATION AND SHAPE SELECTION
Inventors: Younan Xia and Yugan Sun
Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003
REPLACEMENT SHEET (Set B)

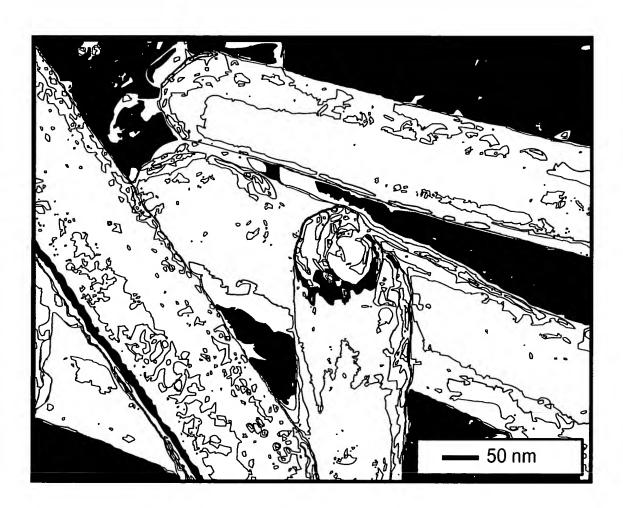


Fig. 17

Title: METHODS OF NANOSTRUCTURE FORMATION AND SHAPE SELECTION Inventors: Younan Xia and Yugan Sun Docket No.: 53433/2 Serial No.: 10/732,910 Filed: 12/09/2003 REPLACEMENT SHEET (Set B)

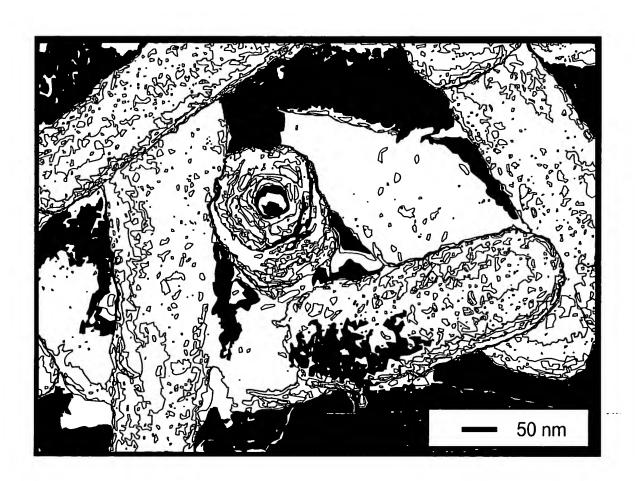


Fig. 18

# This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

### BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

## IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.